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CUSTOMER NO.: 20995

## TERMINAL DISCLAIMER UNDER 37 C.F.R. § 1.321

|                |   |  |
|----------------|---|--|
| Applicant      | : | Bogdan C. Maglich  |
| Appl. No.      | : | 09/883,851   |
| Filed          | : | June 18, 2001  |
| For            | : | METHOD AND APPARATUS<br>FOR NEUTRON MICROSCOPY<br>WITH STOICHIOMETRIC<br>IMAGING |
| Examiner       | : | Jack W. Keith  |
| Group Art Unit | : | 3641   |

Mail Stop Amendment  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

*Empowerment of Attorney*

Pursuant to 37 C.F.R. § 1.321(b) the undersigned attorney of record is empowered to act on behalf of the Assignee, HiEnergy Technologies, Inc. ("Assignee"), by virtue of a Power of Attorney executed on November 17, 2003, a copy of which is attached.

*Right of Assignee and Ownership*

In accordance with 37 C.F.R. § 3.73(b), Assignee represents that it is the owner of a one-hundred percent interest in the above-identified application by virtue of an assignment recorded at Reel No. 014717, Frame No. 0989 by the Assignment Branch of the Patent and Trademark Office. Assignee further represents that it is the owner of a one-hundred percent interest in co-pending Application No. 09/788,736, by virtue of two assignments recorded at Reel No. 014717, Frame No. 0979 and at Reel No. 014717, Frame No. 0991 by the Assignment Branch of the Patent and Trademark Office. The Assignee represents that, to the best of Assignee's knowledge and belief, title is in the Assignee seeking to take action.

Appl. No. : 09/883,851  
Filed : June 18, 2001

*Disclaimer by Assignee*

Assignee hereby disclaims, except as provided below, the terminal part of any patent granted on the above-referenced application that would extend beyond the expiration date of the full statutory term of any patent issuing from U.S. Patent Application No. 09/788,736, and hereby agrees that any patent so granted on the above-identified application shall be enforceable only for and during such period that the instant application and any patent issuing from U.S. Patent Application No. 09/788,736 are co-owned. This agreement extends to any patent granted on the above-referenced application and shall be binding on its successors or assigns.

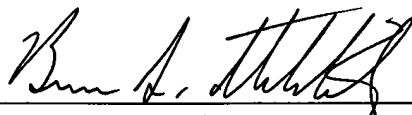
Assignee does not disclaim any terminal part of any patent granted on the above-referenced application prior to the earlier of the expiration date of the full statutory term of any patent issuing from U.S. Patent Application No. 09/788,736, and that of any patent issuing on the above-identified application in the event that either one later expires for failure to pay a maintenance fee, is held unenforceable, is found invalid, is statutorily disclaimed in whole or terminally disclaimed under 37 C.F.R. § 1.321(a), has all claims canceled by a reexamination certificate, or is otherwise terminated prior to expiration of its statutory term, except for the separation of legal title stated above.

This Terminal Disclaimer is accompanied by the \$65 fee set forth in 37 C.F.R. § 1.20(d).

Respectfully submitted,

KNOBBE, MARTENS, OLSON & BEAR, LLP

Dated: 3/28/05

By:   
Bruce S. Itchkawitz  
Registration No. 47,677  
Attorney of Record  
Customer No. 20,995  
(949) 760-0404

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HIENER.1CPC1CP



PATENT

**IN THE UNITED STATES PATENT AND TRADEMARK OFFICE**

|           |   |   |
|-----------|---|---|
| Applicant | : | Bogdan C. Maglich   |
| App. No.  | : | 09/883,851  |
| Filed     | : | June 18, 2001   |
| For       | : | METHOD AND APPARATUS FOR<br>NEUTRON MICROSCOPY WITH<br>STOICHIOMETRIC IMAGING |
| Examiner  | : | Jack W. Keith   |

**ESTABLISHMENT OF RIGHT OF ASSIGNEE TO TAKE ACTION**  
**AND**  
**REVOCAION AND POWER OF ATTORNEY**

Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

The undersigned is empowered to act on behalf of the assignee below (the "Assignee"). A true copy of the original Assignment of the above-captioned application from the inventor to the Assignee is attached hereto. This Assignment represents the entire chain of title of this invention from the inventor to the Assignee.

I declare that all statements made herein are true, and that all statements made upon information and belief are believed to be true, and further, that these statements were made with the knowledge that willful, false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. § 1001, and that willful, false statements may jeopardize the validity of the application, or any patent issuing thereon.

App. No. : 09/883,851  
Filed : June 18, 2001

The undersigned hereby revokes any previous powers of attorney in the subject application, and hereby appoints the registrants of Knobbe, Martens, Olson & Bear, LLP, 2040 Main Street, Fourteenth Floor, Irvine, California 92614, Telephone (949) 760-0404, Customer No. 20,995, as its attorneys with full power of substitution and revocation to prosecute this application and to transact all business in the U.S. Patent and Trademark Office connected herewith. This appointment is to be to the exclusion of the inventor and his attorney(s) in accordance with the provisions of 37 C.F.R. § 3.71.

Please use Customer No. 20,995 for all communications.

HiEnergy Technologies, Inc.

Dated: 11/17/03

By: Bogdan C. Maglich  
Bogdan C. Maglich, Ph.D.

Title: CEO and Chief Scientist

Address: 1601 Alton Parkway, Unit B  
Irvine, California 92606

H:\DOCS\BS\BSI-4811.DOC:ram  
111103

ASSIGNMENT

WHEREAS, I, Bogdan C. Maglich, a United States citizen, residing at 2785 Vista Umbrosa, Newport Beach, California 92660 (hereinafter "ASSIGNOR") have invented certain new and useful improvements in a METHOD AND APPARATUS FOR NEUTRON MICROSCOPY WITH STOICHIOMETRIC IMAGING for which I have filed United States Patent Application No. 09/883,851 in the United States on June 18, 2001 (hereinafter "the Patent Application");

WHEREAS, HiEnergy Technologies, Inc., a Delaware corporation having offices at 1601 Alton Parkway, Unit B, Irvine, California 92606 (hereinafter "ASSIGNEE") desires to purchase the entire right, title, and interest in and to the inventions disclosed in the Patent Application;

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, and the said Patent Application and all Patents that may be granted thereon, and all provisional applications relating thereto, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the said Patent Application in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements and all Letters Patents resulting from the Patent Application to ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said issued Letters Patents;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patent Application immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patent Application, will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEE, its successors, legal representatives, and assigns to obtain and enforce the Patent Application in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17 day of November, 2003

By: Bogdan C. Maglich

Name Printed: Bogdan C. Maglich

STATE OF California }  
COUNTY OF Orange }

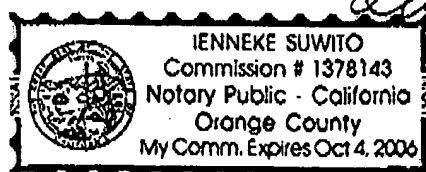
ss.

On Nov. 17, 2003, before me, Jenneke Suwito, personally appeared Bogdan C. Maglich, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

H:\DOCS\BSNBSI-4808.DOC  
111003



Jenneke Suwito  
Notary Signature

**COPY**



HIENER.1CPC1CP asg  
MHT/LSK/PSI

**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 10, 2004

PTAS  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
BRUCE S. ITCHKAWITZ  
2040 MAIN STREET, 14TH FLOOR  
IRVINE, CA 92614



\*102609306A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/24/2003

REEL/FRAME: 014717/0989  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: HIENER.1CPC1CP

ASSIGNOR:  
MAGLICH, BOGDAN C.

DOC DATE: 11/17/2003

ASSIGNEE:  
HIENERGY TECHNOLOGIES, INC.  
1601 ALTON PARKWAY, UNIT B  
IRVINE, CALIFORNIA 92606

SERIAL NUMBER: 09883851

FILING DATE: 06/18/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR NEUTRON MICROSCOPY WITH STOICHIOMETRIC IMAGING

014717/0989 PAGE 2

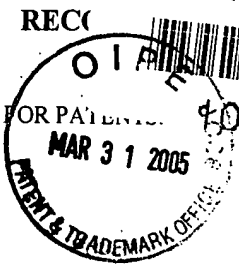
VIOLET MCCOY, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

---

Client Code: HIENER.1CPC1CP

11-26-2003

REC



102609306

iments or copy thereof.

TO THE ASSISTANT COMMISSIONER FOR PATENTS

1. Name of conveying party:

Bogdan C. Maglich

Additional name(s) of conveying party(ies) attached?

( ) Yes (X) No

2. Name and address of receiving party:

Name: HiEnergy Technologies, Inc.

Street Address: 1601 Alton Parkway, Unit B

City: Irvine State: CA ZIP: 92606

Additional name(s) of receiving party(ies) attached?

( ) Yes (X) No

3. Nature of conveyance:

(X) Assignment

( ) Merger

( ) Security Agreement

( ) Change of Name

( ) Other:

4. Application number:

(X) Patent Application No. 09/883,851

Filing Date: June 18, 2001

Additional numbers attached? ( ) Yes (X) No

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) November 17, 2003

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Bruce S. Itchkawitz  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
Customer No. 20,995

Internal Address: Fourteenth Floor

Street Address: 2040 Main Street

City: Irvine State: CA ZIP: 92614

Attorney's Docket No.: HIENER.1CPC1CP

7. Total fee (37 CFR 1.21(h)): \$40.00

(X) Enclosed

( ) Authorized to be charged to deposit account

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 1

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Bruce S. Itchkawitz

Name of Person Signing

Signature

Date

47,677

Registration No.

Total number of pages including cover sheet, attachments and document: 2

11/25/2003 10:00 AM 0000025 09883851 Documents not recorded with required cover sheet information to:

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Mail Stop Assignment Recordation Services

Director, U.S. Patent and Trademark Office

P.O. Box 1450

Alexandria, VA 22313-1450

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111903

OPR/FINANC

2003 NOV 24 AM 7:14



ASSIGNMENT

WHEREAS, I, Bogdan C. Maglich, a United States citizen, residing at 2785 Vista Umbrosa, Newport Beach, California 92660 (hereinafter "ASSIGNOR") have invented certain new and useful Improvements in a METHOD AND APPARATUS FOR NEUTRON MICROSCOPY WITH STOICHIOMETRIC IMAGING for which I have filed United States Patent Application No. 09/883,851 in the United States on June 18, 2001 (hereinafter "the Patent Application");

WHEREAS, HiEnergy Technologies, Inc., a Delaware corporation having offices at 1601 Alton Parkway, Unit B, Irvine, California 92606 (hereinafter "ASSIGNEE") desires to purchase the entire right, title, and interest in and to the inventions disclosed in the Patent Application;

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, and the said Patent Application and all Patents that may be granted thereon, and all provisional applications relating thereto, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the said Patent Application in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements and all Letters Patents resulting from the Patent Application to ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said issued Letters Patents;

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IN TESTIMONY WHEREOF, I hereto set my hand and seal this 17 day of November, 2003

By: Bogdan C. Maglich

Name Printed: Bogdan C. Maglich

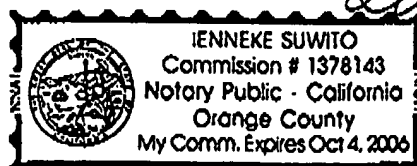
STATE OF California }  
COUNTY OF Orange } ss.

On Nov. 17, 2003, before me, Jenneke Suwito, personally appeared Bogdan C. Maglich, personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]

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111003



Jenneke Suwito  
Notary Signature

HIENER.1CP1C1 sm  
MHT/LJK/BSI



**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 10, 2004

PTAS  
IONBBE, MARTENS, OLSON & BEAR, LLP  
BRUCE S. ITCHKAWITZ  
FOURTEENTH FLOOR  
1040 MAIN STREET  
IRVINE, CA 92614



\*102609305A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/24/2003

REEL/FRAME: 014717/0979  
NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).  
DOCKET NUMBER: HIENER.1CP1C1

ASSIGNOR:

HIENERGY MICRODEVICES, INC.

DOC DATE: 11/17/2003

ASSIGNEE:

HIENERGY TECHNOLOGIES, INC.  
1601 ALTON PARKWAY, UNIT B  
IRVINE, CALIFORNIA 92606

SERIAL NUMBER: 09788736

FILING DATE: 02/20/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR DETECTING, LOCATING, AND ANALYZING  
CHEMICAL COMPOUNDS USING SUBATOMIC PARTICLE ACTIVATION

014717/0979 PAGE 2

JEEVON JONES, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

Client Code: HIENER.1CP1C1

11-26-2003

RECOR



102609305

its or copy thereof.

1. Name of conveying party:

HiEnergy Microdevices, Inc.

Additional name(s) of conveying party(ies) attached?  
( ) Yes (X) No

2. Name and address of receiving party:

Name: HiEnergy Technologies, Inc.  
Street Address: 1601 Alton Parkway, Unit B  
City: Irvine State: CA ZIP: 92606

Additional name(s) of receiving party(ies) attached?  
( ) Yes (X) No

3. Nature of conveyance:

- (X) Assignment  
( ) Merger  
( ) Security Agreement  
( ) Change of Name  
( ) Other:

4. Application number:

(X) Patent Application No.: 09/788,736  
Filing Date: February 20, 2001

Additional numbers attached? ( ) Yes (X) No

Execution Date: (If multiple assignors, list execution dates in numerical order corresponding to numbers indicated in 1 above) November 17, 2003

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Bruce S. Itchkawitz  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
Customer No. 20,995  
Internal Address: Fourteenth Floor  
Street Address: 2040 Main Street  
City: Irvine State: CA ZIP: 92614  
Attorney's Docket No.: HIENER.1CP1C1

7. Total fee (37 CFR 1.21(h)): \$40.00

(X) Enclosed  
( ) Authorized to be charged to deposit account

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 1

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the original document.

Bruce S. Itchkawitz  
Name of Person Signing

Signature

Date

47,677  
Registration No.

11/19/03

Total number of pages including cover sheet, attachments and document: 3

Mail documents to be recorded with required cover sheet information to:

Mail Stop Assignment Recordation Services  
Director, U.S. Patent and Trademark Office  
P.O. Box 1450  
Alexandria, VA 22313-1450

11/25/2003 DTYNE 00000026 09788736  
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111803

ASSIGNMENT

WHEREAS, HiEnergy Microdevices, Inc., a Delaware corporation previously having offices at 10 Mauchly Drive, Irvine California 92618 (hereinafter "ASSIGNOR"), represents and warrants that it is the sole owner of the entire right, title, and interest to certain new and useful improvements for which ASSIGNOR has filed United States Patent Application No. 09/788,736 in the United States on February 20, 2001 entitled "METHOD AND APPARATUS FOR DETECTING, LOCATING AND ANALYZING CHEMICAL COMPOUNDS USING SUBATOMIC PARTICLE ACTIVATION" (hereinafter "the Patent Application");

WHEREAS, HiEnergy Technologies, Inc., a Delaware corporation having offices at 1601 Alton Parkway, Unit B, Irvine, California 92606 (hereinafter "ASSIGNEE") desires to purchase the entire right, title, and interest in and to the inventions disclosed in the Patent Application;

NOW, THEREFORE, in consideration of good and valuable consideration, the receipt of which is hereby acknowledged, ASSIGNOR hereby further acknowledges that it has sold, assigned, and transferred, and by these presents does hereby sell, assign, and transfer, unto ASSIGNEE, its successors, legal representatives, and assigns, the entire right, title, and interest throughout the world in, to, and under the said improvements, and the said Patent Application and all Patents that may be granted thereon, and all provisional applications relating thereto, and all divisions, continuations, reissues, reexaminations, renewals, and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent that may hereafter be filed for said improvements or for the said Patent Application in any country or countries foreign to the United States; and ASSIGNOR hereby authorizes and requests the Commissioner of Patents of the United States, and any Official of any country foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements and all Letters Patents resulting from the Patent Application to ASSIGNEE, its successors, legal representatives, and assigns, in accordance with the terms of this Agreement.

ASSIGNOR does hereby sell, assign, transfer, and convey to ASSIGNEE, its successors, legal representatives, and assigns all claims for damages and all remedies arising out of any violation of the rights assigned hereby that may have accrued prior to the date of assignment to ASSIGNEE, or may accrue hereafter, including, but not limited to, the right to sue for, collect, and retain damages for past infringements of the said issued Letters Patents;

ASSIGNOR hereby covenants and agrees that it will communicate to ASSIGNEE, its successors, legal representatives, and assigns any facts known to ASSIGNOR respecting the Patent Application immediately upon becoming aware of those facts, and that it will testify in any legal proceeding involving any of the Patent Application, will sign all lawful papers, execute all divisional, continuing, and reissue applications, make all rightful oaths, and will generally do everything possible to aid ASSIGNEE, its successors, legal representatives, and assigns to obtain and enforce the Patent Application in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 17<sup>th</sup> day of November, 2003

HiEnergy Microdevices, Inc.

By: Bogdan C. Maglich

Name Printed: Bogdan C. Maglich, Ph.D.

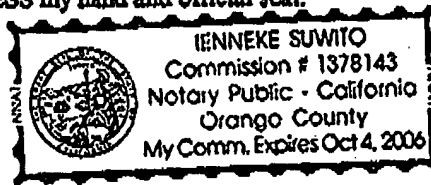
Title: CEO & Chief Scientist

STATE OF California }  
COUNTY OF Orange } ss.

On Nov. 17, 2003, before me, Tenneke Suwito, personally appeared Bogdan C. Maglich, Ph.D. personally known to me (or proved to me on the basis of satisfactory evidence) to be the person whose name is subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity, and that by his signature on the instrument the person, or the entity upon behalf of which the person acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



Tenneke Suwito  
Notary Signature



Hiener/ICP/CI  
MHT/LJK/BSI

**UNITED STATES PATENT AND TRADEMARK OFFICE**

UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE

JUNE 10, 2004

PTAS  
KNOBBE MARTENS OLSON & BEAR LLP  
2040 MAIN STREET  
FOURTEENTH FLOOR  
IRVINE, CA 92614



\*102609304A\*

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

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PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 11/24/2003

REEL/FRAME: 014717/0991  
NUMBER OF PAGES: 2

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

MAGLICH, BOGDAN CASTLE

DOC DATE: 03/26/2002

ASSIGNEE:

HIENERGY MICRODEVICES, INC.  
10 MAUCHLY DRIVE  
IRVINE, CALIFORNIA 92618

SERIAL NUMBER: 09788736

FILING DATE: 02/20/2001

PATENT NUMBER:

ISSUE DATE:

TITLE: METHOD AND APPARATUS FOR DETECTING, LOCATING, AND ANALYZING  
CHEMICAL COMPOUNDS USING SUBATOMIC PARTICLE ACTIVATION

014717/0991 PAGE 2

DIANE RUSSELE, PARALEGAL  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS



Client Code: HIENER.1CP1C1

RECORDED

11-26-2003



TO THE ASSISTANT COMMISSIONER FOR PATENTS

102609304

ats or copy thereof.

1. Name of conveying party:

Bogdan Castle Maglich

Additional name(s) of conveying party(ies) attached?  
( ) Yes (X) No

2. Name and address of receiving party:

Name: HiEnergy Microdevices, Inc.  
Street Address: 10 Mauchly Driv  
City: Irvine State: CA ZIP: 92618

Additional name(s) of receiving party(ies) attached?  
( ) Yes (X) No

3. Nature of conveyance:

- (X) Assignment  
( ) Merger  
( ) Security Agreement  
( ) Change of Name  
( ) Other:

4. Application number:

(X) Patent Application No.: 09/788,736  
Filing Date: February 20, 2001

Execution Date: (If multiple assignors, list execution  
dates in numerical order corresponding to numbers indicated in  
1 above) March 26, 2002

Additional numbers attached? ( ) Yes (X) No

5. Name and address of party to whom correspondence  
concerning document should be mailed:

Name: Bruce S. Itchkawitz  
KNOBBE, MARTENS, OLSON & BEAR, LLP  
Customer No. 20,995  
Internal Address: Fourteenth Floor  
Street Address: 2040 Main Street  
City: Irvine State: CA ZIP: 92614  
Attorney's Docket No.: HIENER.1CP1C1

7. Total fee (37 CFR 1.21(h)): \$40.00

(X) Enclosed  
( ) Authorized to be charged to deposit account

8. Deposit account number: 11-1410

Please charge this account for any additional fees which may be  
required, or credit any overpayment to this account.

6. Total number of applications and patents involved: 1

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct, and any attached copy is a true copy of the  
original document.

Bruce S. Itchkawitz

Name of Person Signing

Signature

Date

11/19/03

47,677

Registration No.

Total number of pages including cover sheet, attachments and document: 2

11/25/2003 DBYRME 00000027 09788736

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ASSIGNMENT

WHEREAS, I, Bogdan Castle Maglich, a United States citizen, residing at 559 Vista Flora, Newport Beach, California, 92660 have invented certain new and useful improvements in a METHOD AND APPARATUS FOR DETECTING, LOCATING, AND ANALYZING CHEMICAL COMPOUNDS USING SUBATOMIC PARTICLE ACTIVATION for which I have submitted Patent Application in the United States, 09/788,736.

AND WHEREAS, HEnergy Microdevices, Inc. (hereinafter "ASSIGNEE"), a Delaware Corporation, with its principal place of business at 10 Mauchly Drive, Irvine, California, 92618 desires to acquire the entire right, title, and interest in and to the said improvements and the said Letters Patent:

NOW, THEREFORE, in consideration of Shareholder Equity and the sum of One Dollar (\$1.00) to me in hand paid, and other good and valuable consideration, the receipt of which is hereby acknowledged, I, the said inventor, do hereby acknowledge that I have sold, assigned, transferred and set over, and by these presents do hereby sell, assign, transfer and set over, unto the said ASSIGNEE, its successors, legal representatives and assigns, the entire right, title, and interest throughout the world in, to and under the said improvements, and the said application and all provisional applications relating thereto, and all divisions, renewals and continuations thereof, and all Letters Patent of the United States which may be granted thereon and all reissues and extensions thereof, and all rights of priority under International Conventions and applications for Letters Patent which may hereafter be filed for said improvements in any country or countries foreign to the United States, and all Letters Patent which may be granted for said improvements in any country or countries foreign to the United States and all extensions, renewals and reissues thereof; and I hereby authorize and request the Commissioner of Patents of the United States, and any Official of any country or countries foreign to the United States, whose duty it is to issue patents on applications as aforesaid, to issue all Letters Patent for said improvements to the said ASSIGNEE, its successors, legal representatives and assigns, in accordance with the terms of this instrument.

AND I HEREBY covenant and agree that I will communicate to the said ASSIGNEE, its successors, legal representatives and assigns, any facts known to me respecting said improvements, and testify in any legal proceeding, sign all lawful papers, execute all divisional, continuing and reissue applications, make all rightful oaths and generally do everything possible to aid the said ASSIGNEE, its successors, legal representatives and assigns, to obtain and enforce proper patent protection for said improvements in all countries.

IN TESTIMONY WHEREOF, I hereunto set my hand and seal this 26<sup>th</sup> day of March, 2002

Bogdan Castle Maglich  
Bogdan Castle Maglich

STATE OF CA

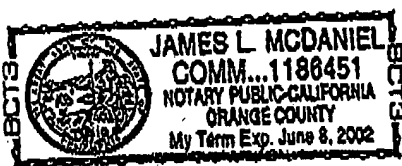
COUNTY OF ORANGE

ss.

On MARCH 26, 2002 before me, BOGDAN CASTLE MAGLICH, personally appeared personally-known-to me (or proved to me on the basis of satisfactory evidence) to be the person(s) whose name(s) is/are subscribed to the within instrument, and acknowledged to me that he executed the same in his authorized capacity(ies), and that by his signature(s) on the instrument the person(s), or the entity upon behalf of which the person(s) acted, executed the instrument.

WITNESS my hand and official seal.

[SEAL]



James L. McDaniel  
Notary Signature

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